



PUB-NO: JP408081738A

DOCUMENT-IDENTIFIER: JP 08081738 A

TITLE: STEEL FOR INDUCTION HARDENING EXCELLENT IN HIGH BEARING FATIGUE STRENGTH

PUBN-DATE: March 26, 1996

INVENTOR-INFORMATION:

NAME	COUNTRY
URITA, TATSUMI	
NAKAMURA, SADAYUKI	
INT-CL (IPC): C22C 38/00; C21D 6/00; C22C 38/24; C22C 38/54; C22C 38/60	

ABSTRACT:

PURPOSE: To produce a steel for induction hardening excellent in high bearing fatigue strength.

CONSTITUTION: This steel for induction hardening excellent in high bearing fatigue strength is characterized by subjecting a steel in which the contents of alloy elements are regulated to, by mass, 0.40 to 0.80% C, 0.3% Si, 0.35 to 1.5% Mn, 0.10 to 3.0% Cr and 0.05 to 0.50% V, and the balance Fe with inevitable impurities to induction hardening in the temp. range of 950 to 1150°C surface temp. and thereafter cooling the same in the temp. range from the heating temp. to 200°C at 150°C/s rate. Moreover, this steel may contain one or two kinds among 3.0% Ni, 1.0% Mo, 0.10% Nb, 0.0005 to 0.0050% B, 0.20% S, 0.20% Te and 0.0050% Ca as well.

COPYRIGHT: (C)1996, JPO